



TEST REPORT

FCC ID: 2BSU8-PB002

Applicant: DONGGUAN XINUO APOLLO ELECTRICAL TECHNOLOGY CO LTD

Address: Room 101, Building1, No.5, Huangyong Commercial road, ZhongtangDongguan City, Guangdong Province, China

Manufacturer: DONGGUAN XINUO APOLLO ELECTRICAL TECHNOLOGY CO LTD

Address: Room 101, Building1, No.5, Huangyong Commercial road, ZhongtangDongguan City, Guangdong Province, China

Product Name: Magnetic Power Bank

Trade Mark: N/A

Model Number: PB002

Date of Receipt: Nov. 10, 2025

Test Date: Nov. 10, 2025 - Nov. 27, 2025

Date of Report: Nov. 27, 2025

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC PART 15 Subpart C
ANSI C63.10:2020

Test Result: Pass

Report Number: DLE-251110042R

Prepared (Engineer): Ken Tan

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

**TABLE OF CONTENT**

Test Report Declaration	Page
1. VERSION	3
2. TEST SUMMARY	3
3. GENERAL INFORMATION	4
4. TEST INSTRUMENT USED	6
5. CONDUCTED EMISSION TEST	7
6. RADIATION EMISSION TEST	11
7. BANDWIDTH TEST	21
8. SETUP PHOTOGRAPHS	22
9. EUT PHOTOGRAPHS	22

**1. VERSION**

Version No.	Date	Description
00	Nov. 27, 2025	Original

2. TEST SUMMARY

EMC Emission			
Test Item	Section in CFR 47	Result	Remark
AC Power Line Conducted Emission	15.207	PASS	
Spurious Emission	15.209(a)(f)	PASS	
20dB Bandwidth	15.215	PASS	
Antenna requirement	15.203	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

Test lab: Shenzhen DL Testing Technology Co., Ltd.

101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1

Address: Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB ID.: CN0118



3. GENERAL INFORMATION

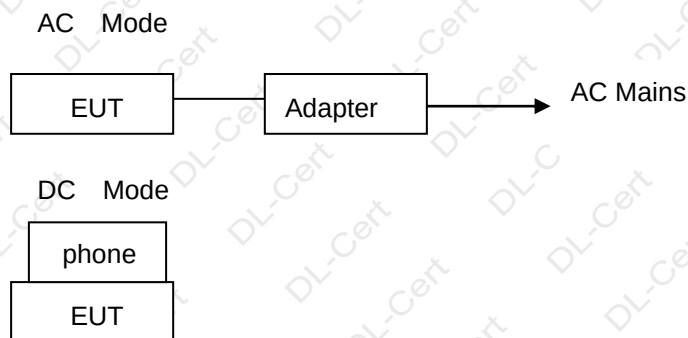
3.1 Description of Device (EUT)

Product Name: Magnetic Power Bank
Trade Mark: N/A
Model Number: PB002
Model Difference: N/A
Serial No.: N/A
Hardware version: H1.0
Software version: S1.0
Operation Frequency: 115kHz ~ 205KHz
Modulation type: MSK
Antenna Type: Inductive loop coil Antenna
Antenna gain: 0dBi
Rated Voltage: 3.85V, Battery Capacity:5000mAh, Rated Capacity:3000mAh
Input parameter: 5V---3A, 9V---2A, 12V---1.5A
Power supply: Output parameters: 5V---3A, 9V---2.22A, 12V---1.67A, 10V---2.25A(SCP)
Output Wireless: 5W/7.5W/10W/15W Max

3.2 Tested System Details

None.

3.3 Block Diagram of Test Set-up



3.4 Test Mode Description

- Mode1. Type-C Input+ Wireless charger Output Mode(Full Load, 1%/50%/99%)
Mode2. Type-C Input+ Wireless charger Output Mode(Half Load, 1%/50%/99%)
Mode3. Type-C Input+ Wireless charger Output Mode(No Load, 1%/50%/99%)
Mode4. Wireless charger Output Mode(Full Load, 1%/50%/99%)
Mode5. Wireless charger Output Mode(Half Load, 1%/50%/99%)
Mode6. Wireless charger Output Mode(No Load, 1%/50%/99%)

Note: 1. We have evaluated 1%, 50% and 99% battery charging mode, and the worst mode (99%) is showed in this report.

2. All modes have been tested, and the report only shows the results of the worst mode1 and mode4.



3.5 Test Auxiliary Equipment

Adapter (Provide by test lab):

Manufacturer: XIAOMI

Model: AD65G

I/P: AC 100-240V 50/60Hz

O/P: DC 5V/3A, DC 9V/3A, DC 10V/5A, DC 12V/3A,

DC 15V/3A, DC 20V/3.25A

Mobile phone (Provide by test lab):

Manufacturer: SAMSUNG

Model: Galaxy S21 5G

3.6 Test Uncertainty

Conducted Emission Uncertainty(150KHz-30MHz) : $\pm 2.56\text{dB}$

20dB Bandwidth : $\pm 0.5\text{kHz}$

Radiated Emission Uncertainty(9KHz-1GHz) : $\pm 3.24\text{dB}$

**4. TEST INSTRUMENT USED****For Conducted Emission Test (843 Shielded Room)**

Equipment	Manufacturer	Model	Serial	Last Cal.	Next Cal.
843 Shielded Room	YIHENG	843 Room	843	Nov. 05, 2023	Nov. 04, 2026
EMI Receiver	R&S	ESR	101421	Oct. 25, 2025	Oct. 24, 2026
LISN	R&S	ENV216	102417	Oct. 25, 2025	Oct. 24, 2026
Clamp	COM-POWER	CLA-050	431071	Oct. 27, 2025	Oct. 26, 2026
3-Loop Antenna	DAZE	ZN30401	13021	Oct. 27, 2025	Oct. 26, 2026
ISN T8	Schwarzbeck	NTFM 8158	101135	Oct. 25, 2025	Oct. 24, 2026
ISN T5	Schwarzbeck	NTFM 8158	101136	Oct. 25, 2025	Oct. 24, 2026
843 Cable 1#	ChengYu	CE Cable	001	Oct. 25, 2025	Oct. 24, 2026
843 Cable 1#	ChengYu	CE Cable	002	Oct. 25, 2025	Oct. 24, 2026

For Radiated Emission Test (966 chamber)

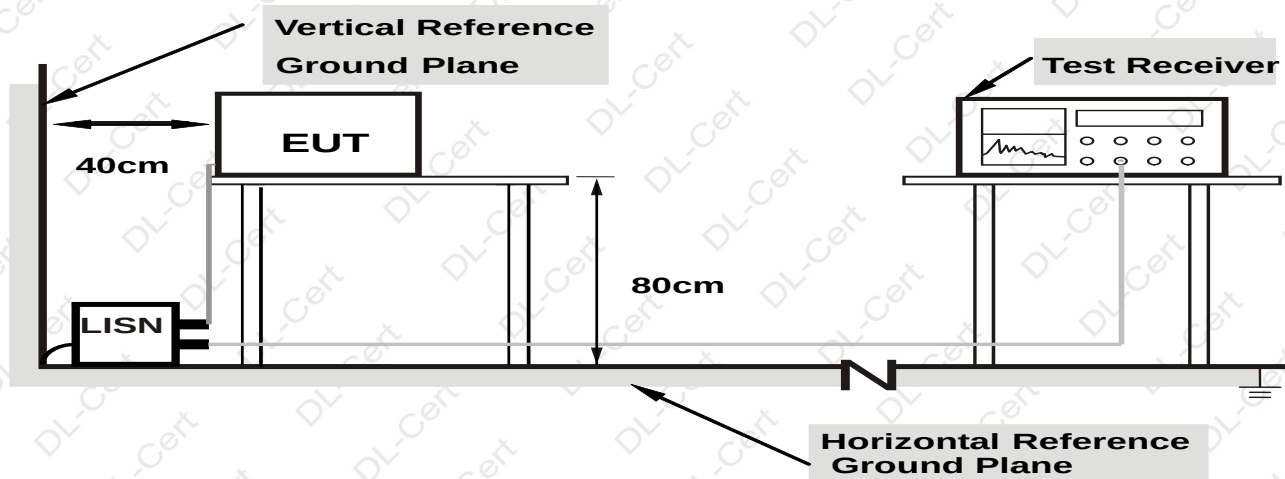
Equipment	Manufacturer	Model	Serial	Last Cal.	Next Cal.
966 Chamber	YIHENG	966 Room	966	Nov. 06, 2023	Nov. 05, 2026
Spectrum Analyzer	Agilent	E4408B	MY50140780	Oct. 25, 2025	Oct. 24, 2026
EMI Receiver	R&S	ESRP7	101393	Oct. 25, 2025	Oct. 24, 2026
Amplifier	Schwarzbeck	BBV9743B	00153	Oct. 25, 2025	Oct. 24, 2026
Amplifier	EMEC	EM01G8GA	00270	Oct. 25, 2025	Oct. 24, 2026
Broadband Trilog Antenna	Schwarzbeck	VULB9162	00306	Oct. 25, 2025	Oct. 24, 2026
Horn Antenna	Schwarzbeck	BBHA9120D	02139	Oct. 25, 2025	Oct. 24, 2026
Loop Antenna	ZHINAN	ZN30900A	/	Oct. 25, 2025	Oct. 24, 2026
966 Cable 1#	ChengYu	966	004	Oct. 25, 2025	Oct. 24, 2026
966 Cable 2#	ChengYu	966	003	Nov. 06, 2023	Nov. 05, 2026



5. CONDUCTED EMISSION TEST

5.1 Block Diagram of Test Setup

For Mains Terminals Test



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

5.2 Test Standard and Limit

FCC Part 15 Subpart C

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15~0.50	66 ~ 56*	55 ~ 46*
0.50~5.00	56	46
5.00~30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

5.3 EUT Configuration on Test

The following equipment's are installed on conducted emission test to meet FCC Part 15 Subpart C requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

5.4 Operating Condition of EUT

5.4.1 Setup the EUT and simulators as shown in Section 5.1.

5.4.2 Turn on the power of all equipments.

5.4.3 Let the EUT work in test modes and test it.



5.5 Test Procedure

The EUT is put on the table and connected to the AC mains through a Artificial Mains Network (AMN) or ISN. This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission levels according to the **ANSI C63.10** regulations during conducted emission test.

The bandwidth of the test receiver (R&S Test Receiver ESR) is set at 10KHz.

The frequency range from 150 KHz to 30 MHz is investigated.

Notes:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor

5.6 Test Result

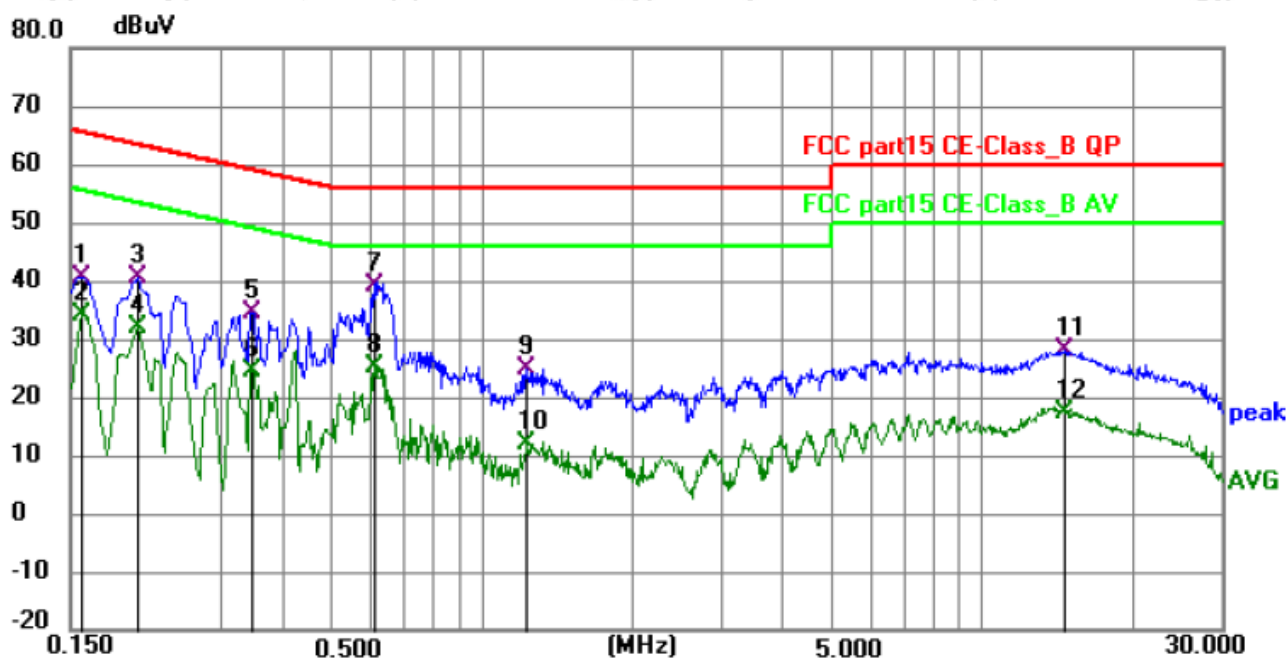
PASS

Please refer to the following page.



Conducted Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase:	Line
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)

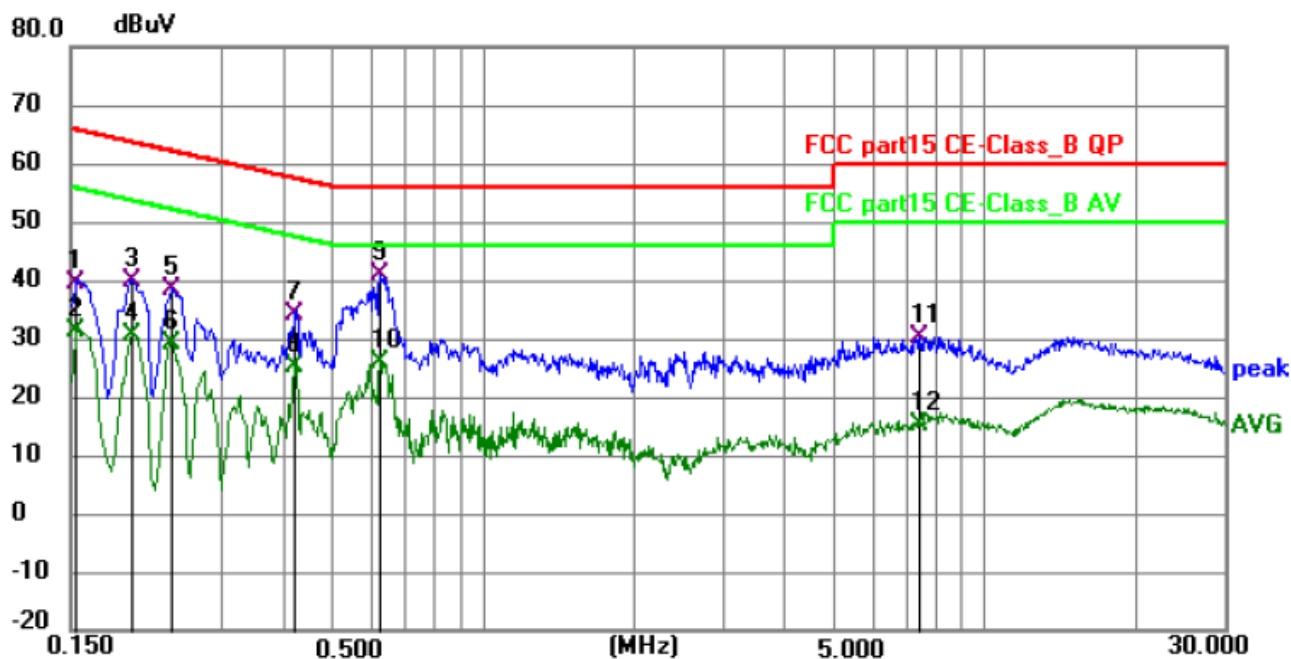


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1590	30.83	9.78	40.61	65.52	-24.91	QP	P	
2	0.1590	24.28	9.78	34.06	55.52	-21.46	AVG	P	
3	0.2040	30.66	9.92	40.58	63.45	-22.87	QP	P	
4	0.2040	22.15	9.92	32.07	53.45	-21.38	AVG	P	
5	0.3480	24.44	9.96	34.40	59.01	-24.61	QP	P	
6	0.3480	14.47	9.96	24.43	49.01	-24.58	AVG	P	
7 *	0.6134	29.21	9.78	38.99	56.00	-17.01	QP	P	
8	0.6134	15.56	9.78	25.34	46.00	-20.66	AVG	P	
9	1.2300	14.98	9.98	24.96	56.00	-31.04	QP	P	
10	1.2300	1.87	9.98	11.85	46.00	-34.15	AVG	P	
11	14.5635	17.91	9.96	27.87	60.00	-32.13	QP	P	
12	14.5635	7.44	9.96	17.40	50.00	-32.60	AVG	P	



Conducted Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase:	Neutral
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)



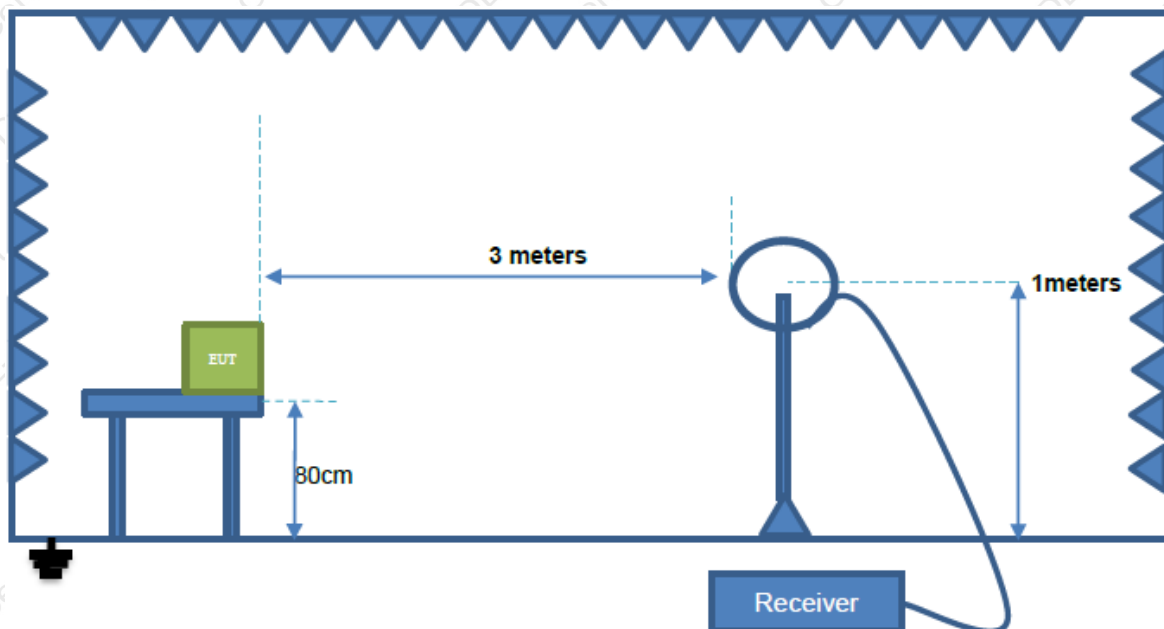
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1545	29.66	9.89	39.55	65.75	-26.20	QP	P	
2	0.1545	21.20	9.89	31.09	55.75	-24.66	AVG	P	
3	0.1995	30.06	9.91	39.97	63.63	-23.66	QP	P	
4	0.1995	20.78	9.91	30.69	53.63	-22.94	AVG	P	
5	0.2400	28.34	9.95	38.29	62.10	-23.81	QP	P	
6	0.2400	19.03	9.95	28.98	52.10	-23.12	AVG	P	
7	0.4200	24.17	9.88	34.05	57.45	-23.40	QP	P	
8	0.4200	15.28	9.88	25.16	47.45	-22.29	AVG	P	
9 *	0.6225	30.94	9.80	40.74	56.00	-15.26	QP	P	
10	0.6225	16.27	9.80	26.07	46.00	-19.93	AVG	P	
11	7.4310	20.21	10.00	30.21	60.00	-29.79	QP	P	
12	7.4310	5.22	10.00	15.22	50.00	-34.78	AVG	P	



6. RADIATION EMISSION TEST

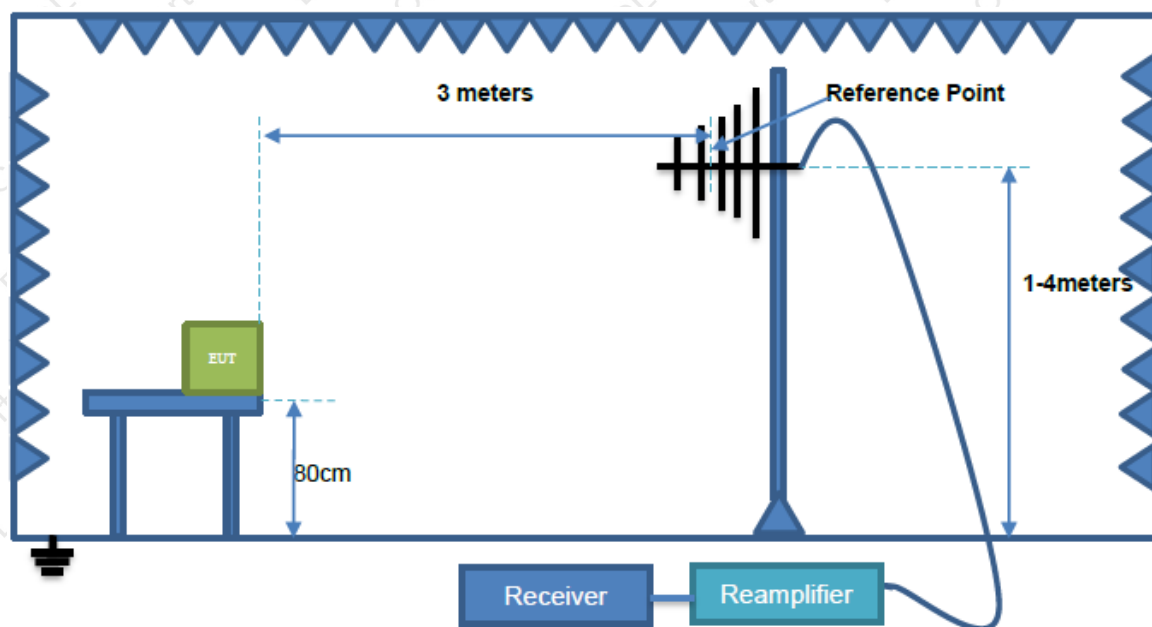
6.1 Block Diagram of Test Setup

Radiated Emission Test-Up Frequency Below 30MHz



Radiation Test (9k - 30MHz)

Below 1GHz



Radiation Test (30MHz - 1GHz)

6.2 Test Standard and Limit

FCC Part 15 Subpart C



Limits for frequency below 30MHz

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.090	2400/F(kHz)	300	AVERAGE
0.090-0.110	2400/F(kHz)	300	Quasi-peak Value
0.110-0.490	2400/F(kHz)	300	AVERAGE
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

Above 30MHz

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dBμV/m)	Remark
30 ~ 88	3	40.0	Quasi-peak Value
88 ~ 216	3	43.5	Quasi-peak Value
216 ~ 960	3	46.0	Quasi-peak Value
960 ~ 1000	3	54.0	Quasi-peak Value
Above 1000	3	74.0	PEAK
		54.0	AVERAGE

Remark:

(1) The smaller limit shall apply at the cross point between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument, antenna and the closed point of any part of the device or system.

6.3 EUT Configuration on Test

The FCC Part 15 Subpart C regulations test method must be used to find the maximum emission during radiated emission test.

The configuration of EUT is the same as used in conducted emission test.

Please refer to Section 5.3.

6.4 Operating Condition of EUT

Same as conducted emission test, which is listed in Section 5.4 except the test set up replaced as Section 6.2.

6.5 Test Procedure

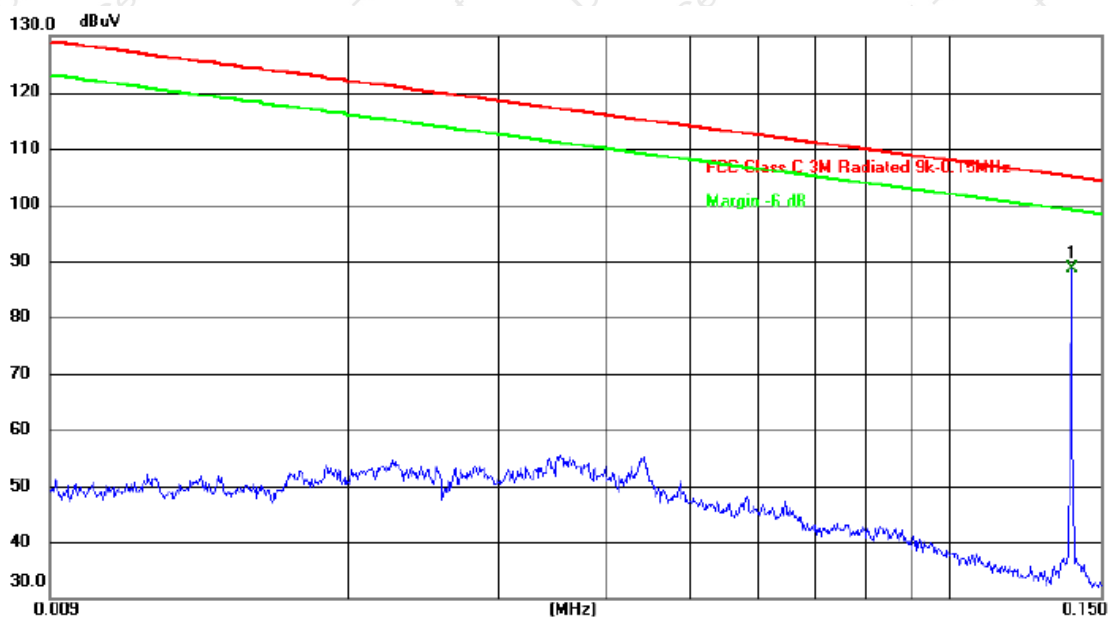
- 1) The radiated emissions test was conducted in a semi-anechoic chamber.
- 2) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 3) Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT.
- 4) The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.
- 5) The bandwidth setting on the field strength meter (R&S Test Receiver ESCI) is set at 120KHz.
- 6) The frequency range from 30MHz to 1000MHz is checked.



6.6 Test Result

PASS, Please refer to the following page.

Radiation Emission Test Data 9 kHz~0.15MHz			
Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	/
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1386	88.21	0.39	88.60	105.04	-16.44	AVG	

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

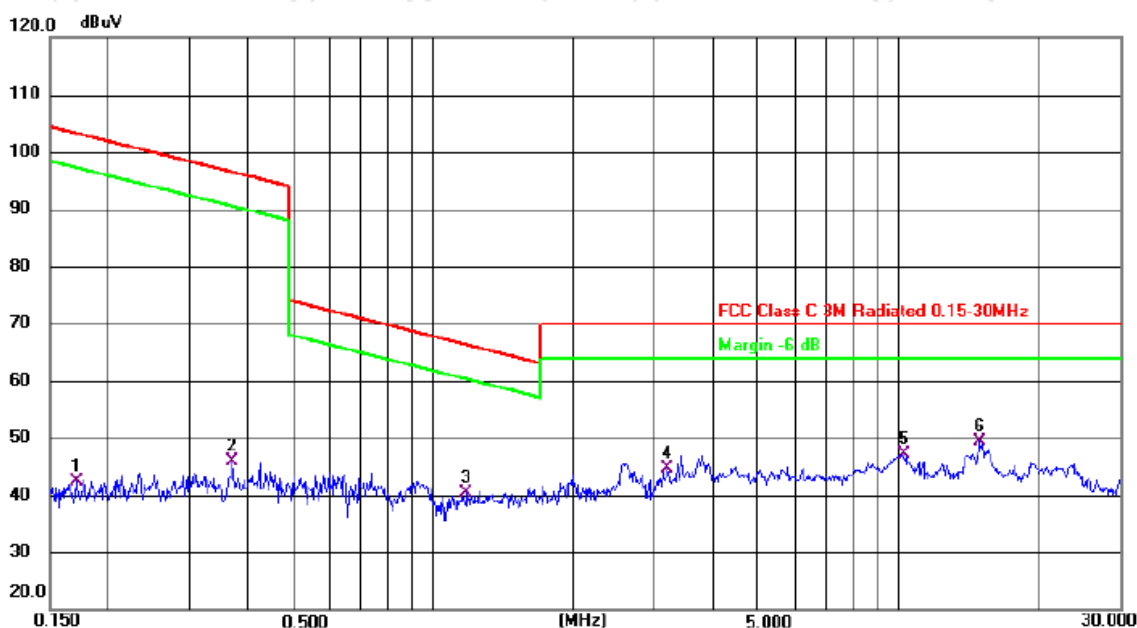
Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level(Meter Reading+ Factor) - Limit.



Radiation Emission Test Data 0.15MHz~30 MHz

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	/
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1703	42.00	0.46	42.46	103.24	-60.78	QP	
2		0.3689	44.92	0.95	45.87	96.48	-50.61	QP	
3		1.1774	37.42	2.90	40.32	66.27	-25.95	QP	
4		3.1900	37.59	7.03	44.62	70.00	-25.38	QP	
5		10.2873	51.90	-4.74	47.16	70.00	-22.84	QP	
6	*	14.9068	45.61	3.67	49.28	70.00	-20.72	QP	

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

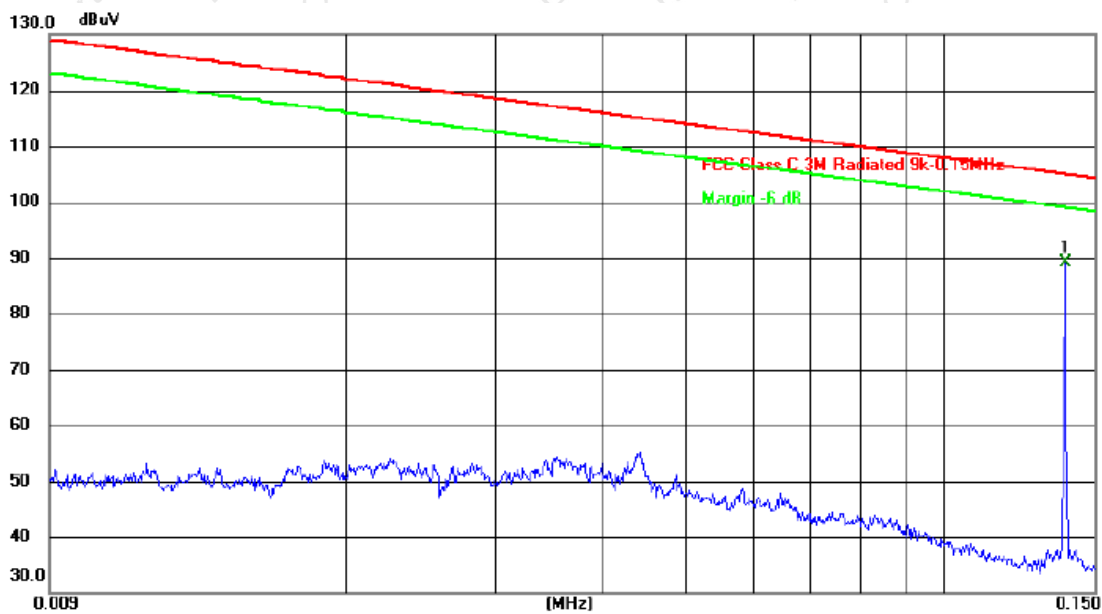
Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level(Meter Reading+ Factor) - Limit.



Radiation Emission Test Data 9 kHz~0.15MHz

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	/
Test Voltage:	DC 3.85V	Test Mode:	Mode 4(Portable)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1386	88.71	0.39	89.10	105.04	-15.94	AVG	

Note:

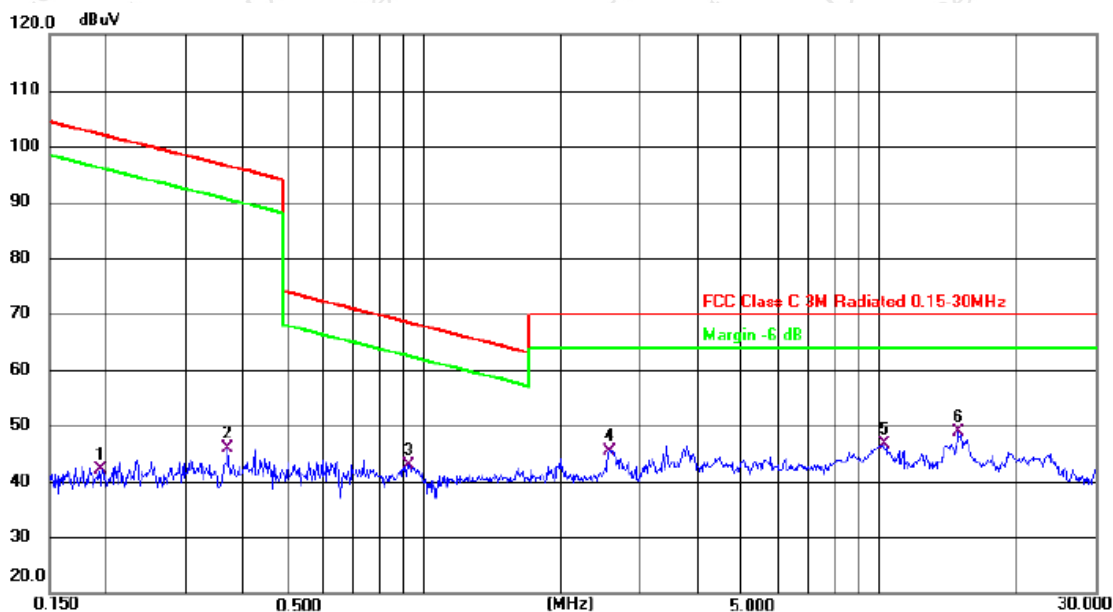
Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level(Meter Reading+ Factor) - Limit.

**Radiation Emission Test Data 0.15MHz~30 MHz**

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	/
Test Voltage:	DC 3.85V	Test Mode:	Mode 4(Portable)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1952	41.61	0.53	42.14	102.05	-59.91	QP	
2		0.3689	44.92	0.95	45.87	96.48	-50.61	QP	
3		0.9233	40.58	2.33	42.91	68.41	-25.50	QP	
4		2.5535	39.71	5.72	45.43	70.00	-24.57	QP	
5		10.2873	51.40	-4.74	46.66	70.00	-23.34	QP	
6	*	14.9068	45.11	3.67	48.78	70.00	-21.22	QP	

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

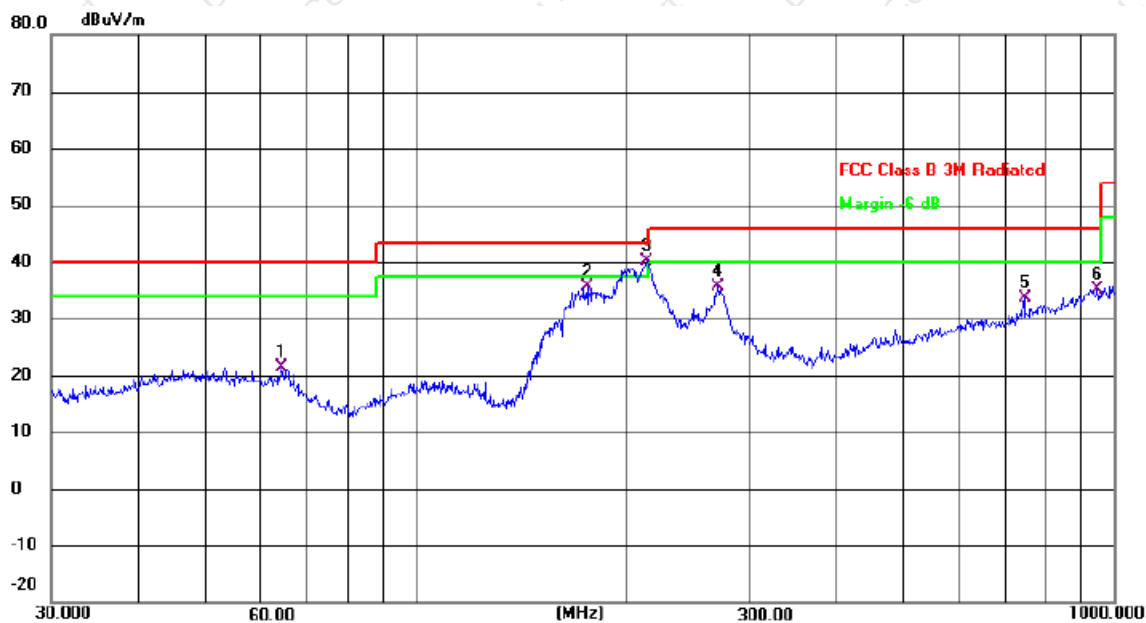
Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level(Meter Reading+ Factor) - Limit.



Radiation Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)

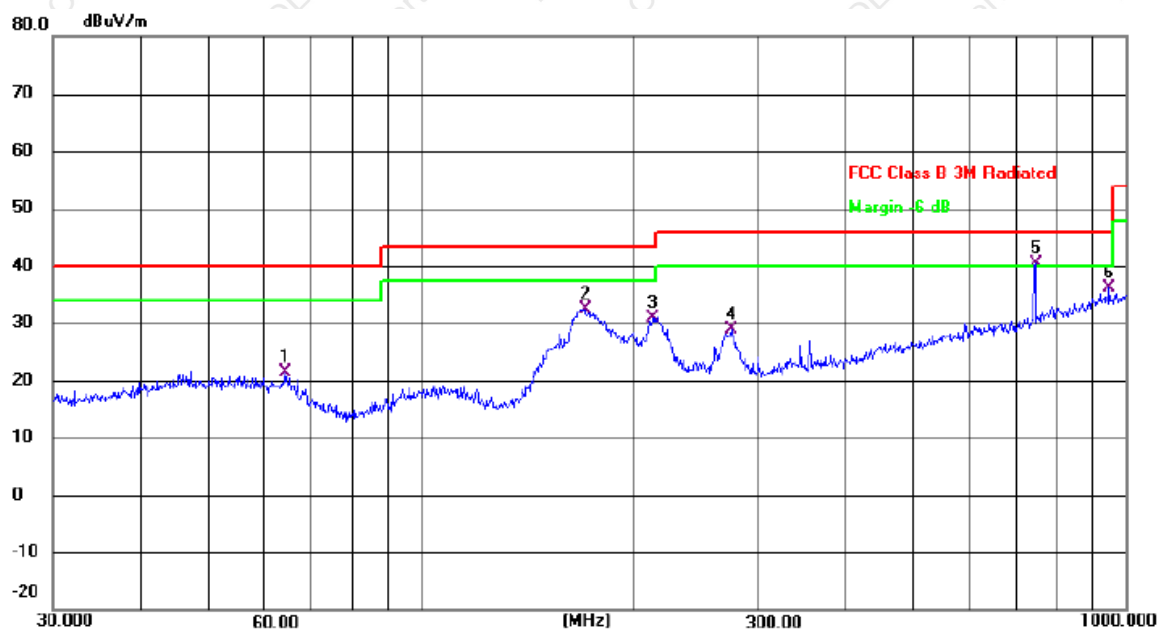


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		64.2074	30.08	-8.76	21.32	40.00	-18.68	QP	
2		176.2686	46.49	-10.98	35.51	43.50	-7.99	QP	
3	*	214.5142	48.27	-8.23	40.04	43.50	-3.46	QP	
4		270.3748	42.14	-6.52	35.62	46.00	-10.38	QP	
5		744.8660	30.79	2.75	33.54	46.00	-12.46	QP	
6		948.7609	29.63	5.51	35.14	46.00	-10.86	QP	



Radiation Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)



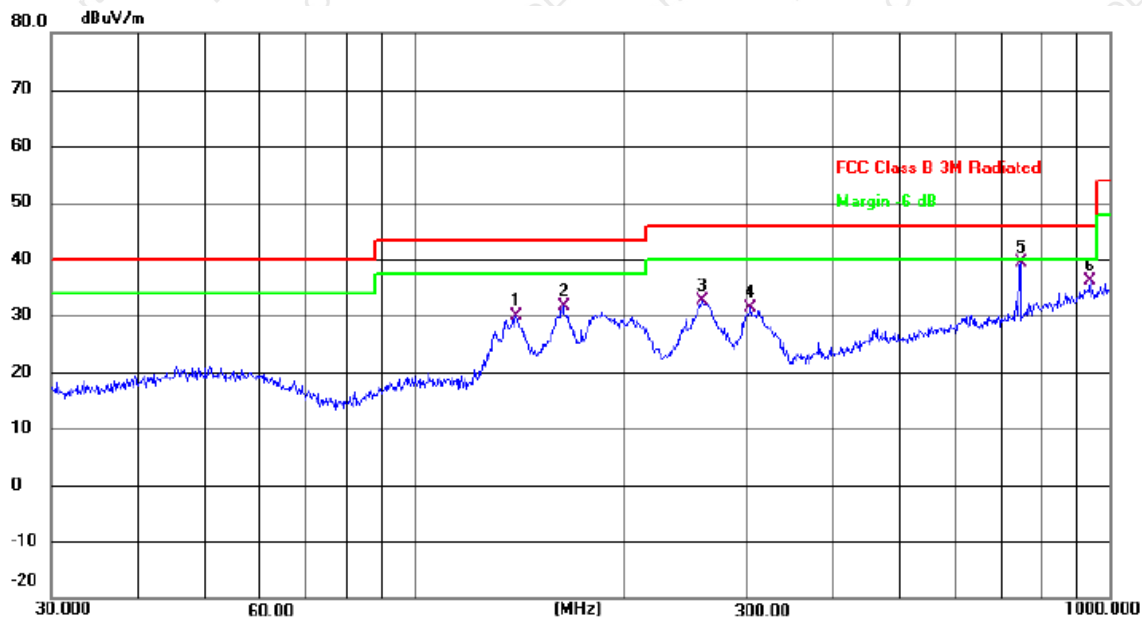
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		63.9828	30.03	-8.71	21.32	40.00	-18.68	QP	
2		170.7926	43.71	-11.26	32.45	43.50	-11.05	QP	
3		213.0151	39.20	-8.33	30.87	43.50	-12.63	QP	
4		275.1570	35.66	-6.66	29.00	46.00	-17.00	QP	
5	*	744.8661	37.65	2.75	40.40	46.00	-5.60	QP	
6		948.7610	30.65	5.51	36.16	46.00	-9.84	QP	

Remarks:

1. Final Level = Receiver Read level + Correct factor (Antenna Factor + Cable Loss – Preamplifier Factor)
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

**Radiation Emission Test Data**

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Test Mode:	Mode 4(Portable)

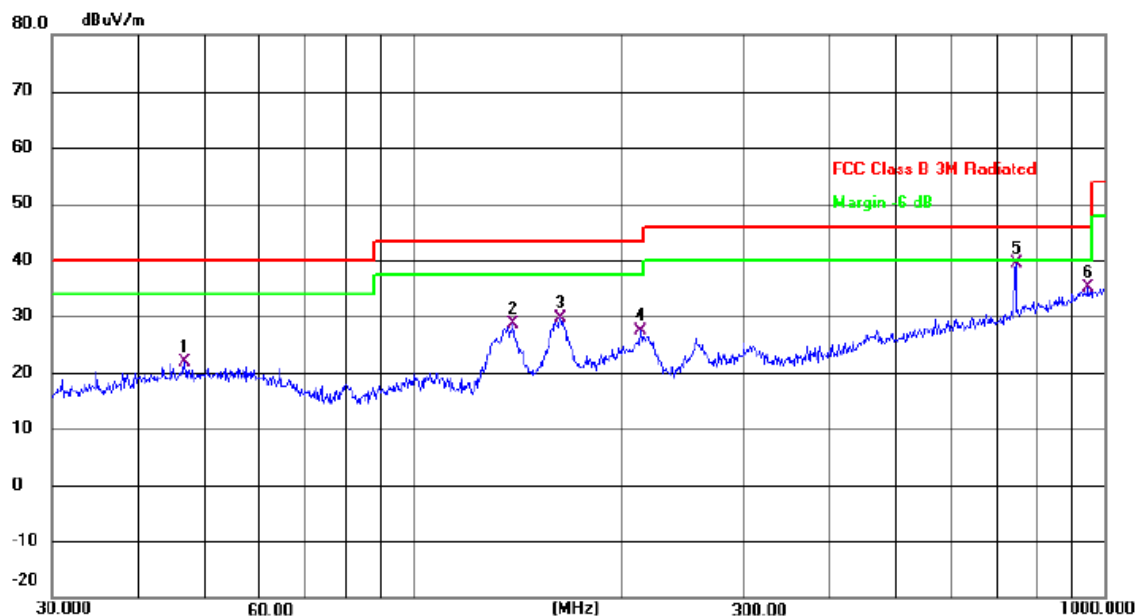


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		139.8508	42.54	-12.60	29.94	43.50	-13.56	QP	
2		163.7550	43.18	-11.65	31.53	43.50	-11.97	QP	
3		259.2338	39.64	-7.10	32.54	46.00	-13.46	QP	
4		304.6099	37.37	-6.10	31.27	46.00	-14.73	QP	
5	*	744.8661	36.58	2.75	39.33	46.00	-6.67	QP	
6		938.8326	30.12	5.97	36.09	46.00	-9.91	QP	



Radiation Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Vertical
Test Voltage:	DC 3.85V	Test Mode:	Mode 4(Portable)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		46.6664	28.41	-6.53	21.88	40.00	-18.12	QP	
2		139.3613	41.23	-12.61	28.62	43.50	-14.88	QP	
3		163.1818	41.11	-11.59	29.52	43.50	-13.98	QP	
4		213.0151	35.72	-8.33	27.39	43.50	-16.11	QP	
5	*	744.8661	36.53	2.75	39.28	46.00	-6.72	QP	
6		948.7610	29.72	5.51	35.23	46.00	-10.77	QP	

Remarks:

- 1.Final Level =Receiver Read level + Correct factor (Antenna Factor + Cable Loss – Preamplifier Factor)
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.

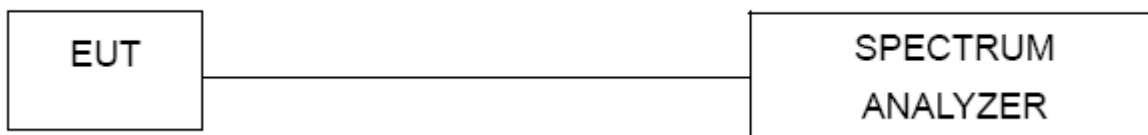


7. BANDWIDTH TEST

7.1 TEST SETUP

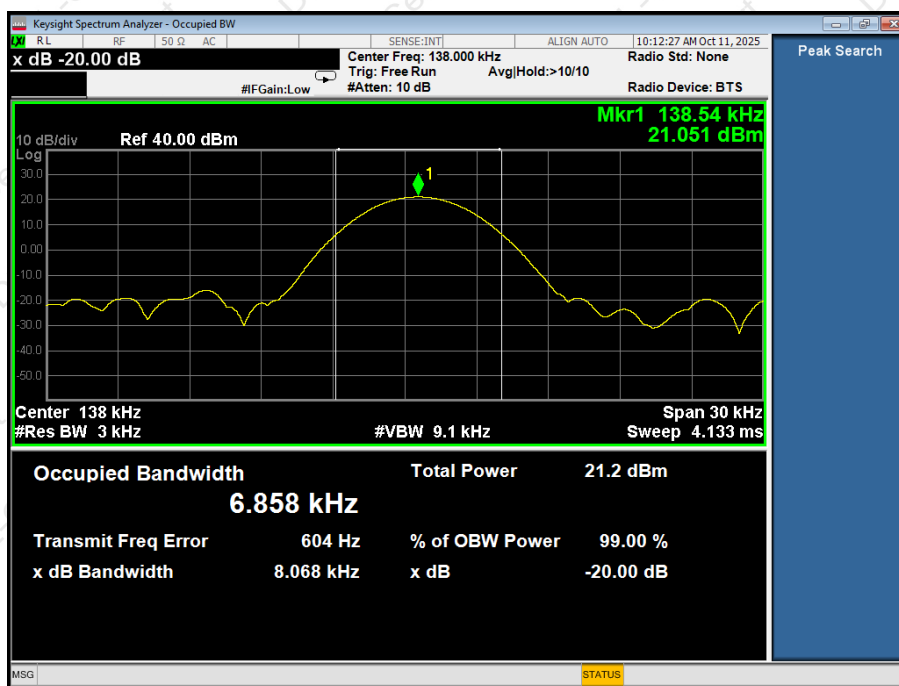
1. Set RBW = 3KHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

7.2 TEST SETUP



7.3 TEST Result

Frequency (KHz)	20dB bandwidth (KHz)	Result
138	8.063	Pass





8. SETUP PHOTOGRAPHS

Reference to the setup photo for details.

9. EUT PHOTOGRAPHS

Reference to the external and internal photo for details.

***** END OF REPORT *****